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IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

PATENT APPLICATION

Applicant(s): **Hongbin Zhang et al.**
Case: **TYCO/003** Confirmation #: **3259**
Serial No.: **10/796,930** Filed: **3/10/04**
Examiner: **unknown** Group Art Unit: **2872**
Title: **METHODS AND APPARATUS FOR POLARIZATION
CONTROL**

POWER OF ATTORNEY/
CHANGE OF CORRESPONDENCE ADDRESS

COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, VA 22313-1450

SIR:

Tyco Telecommunications (US) Inc., a Delaware corporation, as Assignee of the entire interest of the above-identified patent application (copies of Assignment in the chain of title are attached), hereby revokes all powers of attorney previously given and appoints the following attorneys and agents to prosecute and transact all business in the United States Patent & Trademark Office connected therewith.

Attorney Name(s): Attorneys and/or Agents of CUSTOMER #26,291

Please send all correspondence to:

CUSTOMER #26,291
MOSER, PATTERSON & SHERIDAN, LLP
595 Shrewsbury Avenue
Suite 100
Shrewsbury, New Jersey 07702
Attention: John Maldjian

Telephone calls should be made to JOHN MALDJIAN at: telephone number 732-530-9404 and fax number 732-530-9808.

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The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Please mark the record to reflect new Attorney Docket No.: TYCO/003.

Date: 8/3/04

William C. Marra
William C. Marra
Vice President & CTO Research,
Development, Engineering &
Network Operations
Tyco Telecommunications (US) Inc.

ASSIGNMENT OF UTILITY APPLICATION		Former PTO/SB/15 (8-00) Modified UDUKAM Docket Number TYCOTE 3.0-003
<p>Whereas, I, <u>Hongbin Zhang</u> of <u>11 Mallard Lane, Marlboro, NJ 07746</u> hereafter referred to as assignor, have with others invented certain new and useful improvements in METHODS AND APPARATUS FOR POLARIZATION CONTROL</p> <p><input checked="" type="checkbox"/> for which an application for a United States Letters Patent was filed on <u>March 10, 2004</u> Application Number <u>10/798,930</u></p> <p><input type="checkbox"/> for which an application for a United States Letters Patent was executed by me on _____ and _____</p> <p>Whereas, <u>Tyco Telecommunications (US) Inc.</u>, a corporation of <u>Delaware</u> herein referred to as "assignee" whose mailing address is <u>80 Columbia Road; Morristown, New Jersey 07960</u> is desirous of acquiring the entire right, title and interest in the same;</p> <p>NOW, THEREFORE, in consideration of the sum of <u>one</u> dollars (\$ <u>1.00</u>), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid the assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.</p> <p><u>3/30/2004</u> <u>Laura Fish</u> (Date) (Signature)</p> <p>State of <u>New Jersey</u>) SS: County of <u>Marlboro</u>)</p> <p>On the <u>30th</u> day of <u>March</u>, <u>2004</u> before me personally came the above-named <u>Hongbin Zhang</u>, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes therein set forth.</p> <p><u>Laura Fish</u> (Notary Public)</p> <p><u>Laura Fish</u> Notary Public State of New Jersey My Commission Expires On June 25, 2006</p>		
<input checked="" type="checkbox"/> *Total of <u>4</u> forms are submitted.		

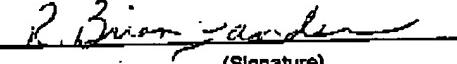
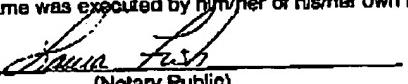
LD-5281

Former PTO/SB/15 (8-00) Modified LDL/GM

ASSIGNMENT OF UTILITY APPLICATION		Docket Number TYCOTE 3.0-003
<p>Whereas, I, <u>Li Liu</u> of <u>910 N. Broad Street, Apt F10; Carneys Point, New Jersey 08069</u> hereafter referred to as assignor, have with others invented certain new and useful improvements in METHODS AND APPARATUS FOR POLARIZATION CONTROL</p> <p><input checked="" type="checkbox"/> for which an application for a United States Letters Patent was filed on <u>March 10, 2004</u> Application Number <u>10/796,930</u></p> <p><input type="checkbox"/> for which an application for a United States Letters Patent was executed by me on _____ and _____</p> <p>Whereas, <u>Tyco Telecommunications (US) Inc.</u> a corporation of <u>Delaware</u> herein referred to as "assignee" whose mailing address is <u>60 Columbia Road; Morristown, New Jersey 07960</u> is desirous of acquiring the entire right, title and interest in the same:</p> <p>NOW, THEREFORE, In consideration of the sum of <u>one</u> dollars (\$ <u>1.00</u>), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid the assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.</p> <p><u>4/12/2004</u> <u>J. L.</u></p> <p>(Date) (Signature)</p> <p>State of <u>New Jersey</u>) SS: County of <u>Morristown</u>)</p> <p>On this <u>17th</u> day of <u>April</u>, <u>2004</u> before me personally came the above-named <u>Li Liu</u>, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes therein set forth.</p> <p><u>Laura Fish</u> Notary Public State of New Jersey My Commission Expires On June 23, 2006</p> <p><input checked="" type="checkbox"/> Total of <u>4</u> forms are submitted.</p>		

LD-5281

former PTO/SB/16 (6-00) Modified LDLK&M

ASSIGNMENT OF UTILITY APPLICATION		Docket Number TYCOTE 3.0-003
<p>Whereas, I, <u>R. Brian Jander</u> of <u>109 Tree Top Circle, Freehold, New Jersey 07728</u> hereafter referred to as assignor, have with others invented certain new and useful improvements in METHODS AND APPARATUS FOR POLARIZATION CONTROL</p> <p><input checked="" type="checkbox"/> for which an application for a United States Letters Patent was filed on <u>March 10, 2004</u> Application Number <u>10/796,930</u></p> <p><input type="checkbox"/> for which an application for a United States Letters Patent was executed by me on _____ and _____</p>		
<p>Whereas, <u>Tyco Telecommunications (US) Inc.</u> a corporation of <u>Delaware</u> herein referred to as "assignee" whose mailing address is <u>60 Columbia Road, Morristown, New Jersey 07960</u> is desirous of acquiring the entire right, title and interest in the same;</p> <p>NOW, THEREFORE, in consideration of the sum of <u>one</u> dollars (\$ <u>1.00</u>), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid the assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.</p>		
<u>7/30/04</u> (Date)		 (Signature)
State of <u>New Jersey</u>) SS: County of <u>Monmouth</u>)		
On this <u>30th</u> day of <u>July</u> , <u>2004</u> before me personally came the above-named <u>R. Brian Jander</u> , to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes therein set forth.		
 (Notary Public)		<u>Laura Fish</u> Notary Public State of New Jersey My Commission Expires On June 25, 2006
<input checked="" type="checkbox"/> *Total of <u>4</u> forms are submitted.		

LD-5281

ASSIGNMENT OF UTILITY APPLICATION		Docket Number TYCOTE 3.0-003
<p>Whereas, I, <u>Alexei N. Pilipetski</u> <u>16 Ratsigh Pass, Cotts Neck, New Jersey 07722</u> hereafter referred to as assignor, have with others invented certain new and useful improvements in METHODS AND APPARATUS FOR POLARIZATION CONTROL</p> <p><input checked="" type="checkbox"/> for which an application for a United States Letters Patent was filed on <u>March 10, 2004</u> Application Number <u>10/796,930</u></p> <p><input type="checkbox"/> for which an application for a United States Letters Patent was executed by me on _____ and _____</p> <p>Whereas, <u>Tyco Telecommunications (US) Inc.</u> a corporation of <u>Delaware</u> herein referred to as "assignee" whose mailing address is <u>60 Columbia Road, Morristown, New Jersey 07960</u> is desirous of acquiring the entire right, title and interest in the same;</p> <p>NOW, THEREFORE, in consideration of the sum of <u>one</u> dollars (\$ <u>1.00</u>), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said Invention, including without limitation all applications and patents for said Invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any Interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid the assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.</p> <p><u>4/12/04</u> (Date)</p> <p><u>Alexei Pilipetski</u> (Signature)</p> <p>State of <u>New Jersey</u>, County of <u>Morristown</u>) SS:</p> <p>On this <u>12th</u> day of <u>April</u>, <u>2004</u> before me personally came the above-named <u>Alexei N. Pilipetski</u>, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes therein set forth.</p> <p><u>Laura Fish</u> (Notary Public)</p> <p><u>Laura Fish</u> Notary Public State of New Jersey My Commission Expires on June 25, 2004</p>		